

The Locations of the isel Group of Companies



Dermbach factory (approx. 14,000 m²)
Untere Röde 2 | D-36446 Dermbach



Eichenzell factory (approx. 11,000 m²)
Bürgermeister-Ebert-Straße 40 | D-36124 Eichenzell



Eiterfeld factory (approx. 8,000 m²)
Im Leibolzgraben 16 | D-36132 Eiterfeld



Electronics



Mechanics



Software



Systems



Electronics



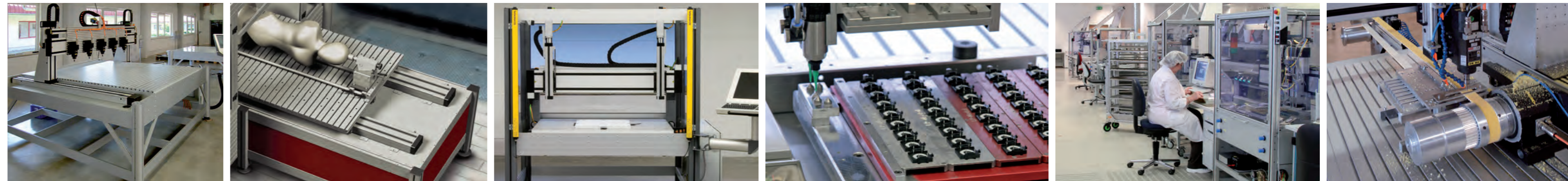
Mechanics



Software



Systems



The Company

isel Germany AG – founded in 1972 in Eiterfeld (Hesse) under the company name isert-Elektronik is the core company of the isel group of companies. The company objectives are the development, production, sales and service of mechatronic components and systems for industrial automation. With the slogan "From Components to Systems" the company offers A-to-Z products from the MECHANICS, ELECTRONICS, SOFTWARE and SYSTEMS ranges.

isel Germany AG has locations in Germany in Eichenzell (Hesse), Eiterfeld (Hesse) and Dermbach (Thuringia) with a total of 33,000 m² of production, warehouse and office space. The company's activities cover the world-wide market and include almost all industries and customer groups.

Company Objectives

The objective of isel Germany AG is to provide products and services at a favourable cost/performance ratio and a high level of quality. In this respect, we cover it all – from development and production, through sales and service to consulting and training: everything from one source.

The modular design of all isel products including the open interfaces of the controllers and software used allow the flexibility required for customer-specific solutions. The company's business also includes commission work and project planning for OEM customers in all fields who – together with isel products, specific own products and know-how - subsequently create successful customer solutions.

isel Germany AG

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From Components to Systems

isel[®]

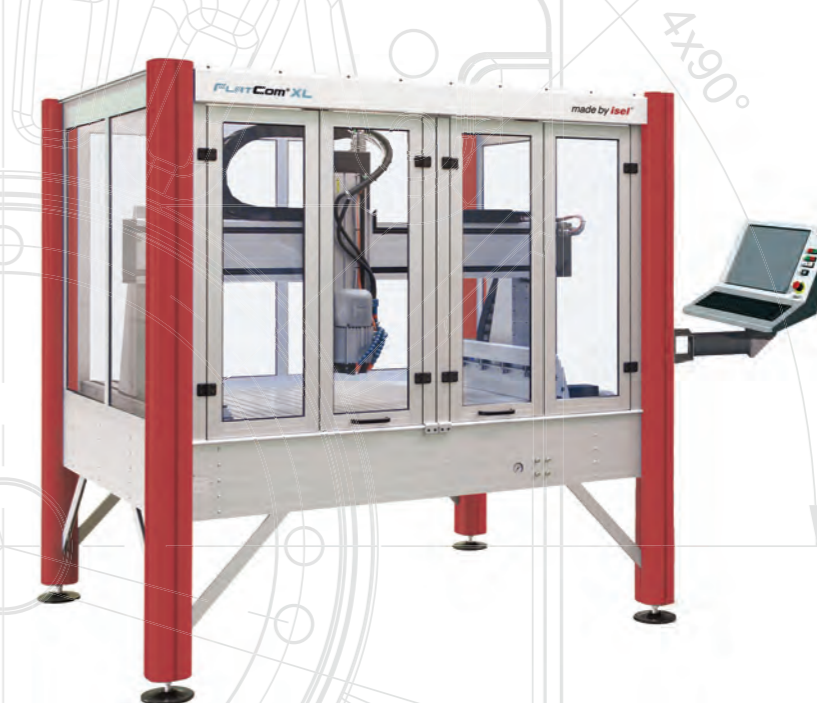
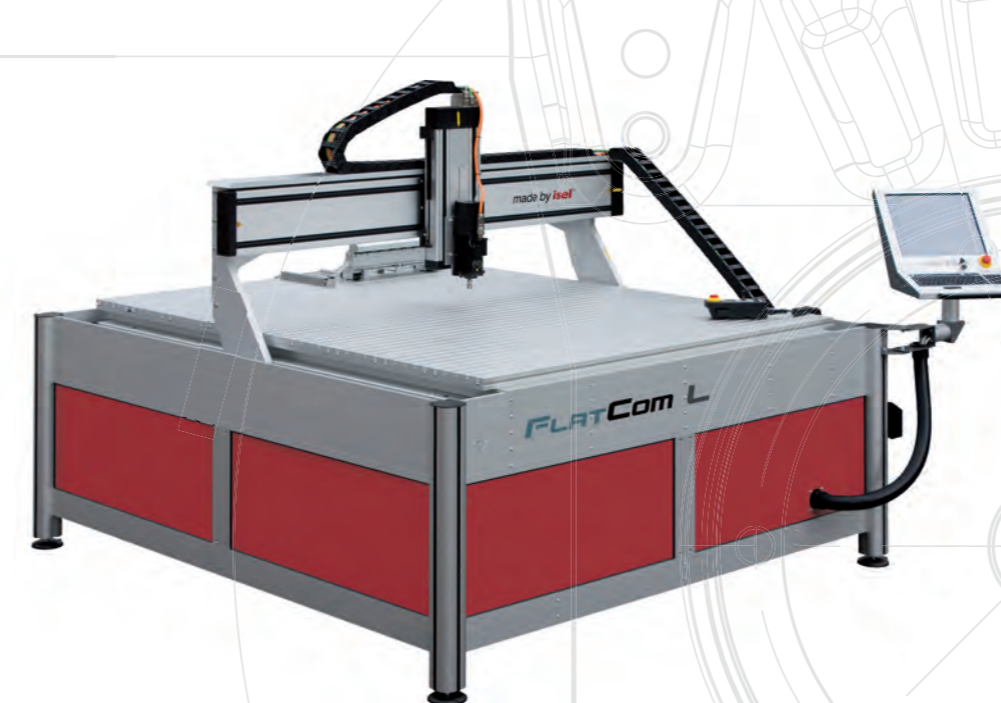


EUROMOD

FLATCom M

FLATCom L

FLATCom XL (GFV series)



CNC Technology in Industrial Quality

The isel CNC machines in the EuroMod and FlatCom ranges are CNC machines which use the proven rack construction method, built on a modular basis from isel special aluminium profiles.

All linear axes are also from the isel product range and run on polished precision steel shafts with patented linear ball bearings. The drives we use are backlash-free ball screws with hardened and polished ball screw spindles, thread pitches are matched to the intended application. Our linear axes are driven by maintenance-friendly drive modules with servo motors.

The machine table, made of face milled precision T-slot profiles, offers optimal clamping options for a wide variety of workpiece holding fixtures and devices.

The subframe is a "honeycomb construction" – made of rigid aluminium panel profiles and stand profiles.

The protective hood, based on aluminium profiles and acrylic glass panes, forms a closed workspace. Sliding doors with safety interlock enable to use the whole workspace width when loading and unloading.

The control box, attached to the machine, contains all drive modules for the CAN-CNC control for three and more axes. The machine is operated by the isel control panel, which is also attached to the machine.

Detailed information and further technical data on the CNC machine range from isel Germany AG can be found at www.cnc-machines.isel.com

Basis for many Applications

The isel CNC machines from the EuroMod and FlatCom ranges are the basis for configuring machines – for example for:

- Milling
- Drilling
- Engraving
- Cutting
- Dispensing
- Gluing
- Moulding
- Deburring
- Polishing
- Measuring
- Testing
- Scanning
- Scaling
- Imprinting
- Pick and Place
- Mounting
- Screwing

Range
Machine Type
Design configuration
Travel X/Y/Z (mm) – without components attached to the axes
Opening (mm) – without components attached to the axis
Table clamping area W x D (mm)
Dimensions W/D/H (mm)
Travel speed (mm/s)
Repeat accuracy (mm)
Approx. weight (kg)
Accessories
Machining materials

EUROMOD		
MP 30	MP 45	MP 65
Fixed portal, moving table		
650/300/250	650/450/250	1,000/650/250
350		
900 x 350	900 x 500	1,200 x 700
1,160/800/1,700	1,160/1,110/1,700	1,480/1,510/1,700
approx. 250		
< /= 0.02		
250	280	375

FLATCom M			
M 20	M 30	M 40	M 50
Moving portal, fixed table			
700/600/150	700/900/150	1,200/900/150	1,200/1,400/150
200 (optionally 300)			
750 x 750	750 x 1,000	1,250 x 1,000	1,250 x 1,500
1,420/1,150/1,870	1,420/1,450/1,870	1,920/1,450/1,870	1,920/1,950/1,870
approx. 250			
< /= 0.02			
300	350	450	525

FLATCom L		
L 150	L 250	L 300
Moving portal, fixed table		
1,500/1,700/200	2,500/1,700/200	1,700/3,000/200
250 (optionally up to 500)		
1,750 x 2,250	2,750 x 2,250	2,250 x 3,250
2,216/2,430/1,600	3,216/2,430/1,600	2,430/3,716/1,600
approx. 250		
< /= 0.02		
435	510	580

FLATCom XL				
102/72	102/112	142/112	142/162	142/252
Moving portal, fixed table				
1,020/720/220	1,020/1,120/220	1,420/1,120/220	1,420/1,620/220	1,420/2,520/220
235 (optionally 435)				
1,125 x 1,300	1,125 x 1,700	1,500 x 1,700	1,500 x 2,200	1,500 x 3,050
2,084/1,584/1,890	2,084/1,984/1,890	2,459/1,984/1,890	2,459/2,484/1,890	2,459/3,384/1,890
approx. 250				
< /= 0.02				
550	600	700	800	1,000

Drilling/milling spindles, tool changing stations, cooling/spraying devices, vacuum clamps, extractors, automatically opening sliding doors, safety light curtain, rotary units (4th axis), etc.

Basically all machines are suitable for machining light metals, non-ferrous metals, plastics and wood.

The selection of the optimal CNC machine depends both, the clamping area and the geometry of the workpieces as well as the desired type of processing.

What you should know:

We would be happy to take care of the design and production of individual machines for special purposes.

Contact us!

sales@isel.com

Subject to technical changes without notice. Errors and omissions excepted.